

Title (en)

Molding core for casting engine cylinder block.

Title (de)

Formkern für das Giessen eines Motorzylinderblocks.

Title (fr)

Noyau de moulage pour la coulée d'un bloc-cylindres de moteur.

Publication

EP 0092690 A1 19831102 (EN)

Application

EP 83103190 A 19830330

Priority

JP 6638582 A 19820422

Abstract (en)

A core to be used in cooperation with a mold, for casting an engine cylinder block is made in a single piece. The single piece core comprises a main portion and at least one evaporative pattern (18). The main portion has a shape for forming one or more cylinder bore and a crank chamber (15) of a cylinder block. The evaporative pattern has the same shape as a main bearing portion which is to be formed in a cylinder block and includes a main bearing housing, ribs and lubricating oil passages. The evaporative pattern is embedded in the main body (16), and is made of a material such as foamed polystyrene. When heat is applied, the evaporative pattern dissipates and leaves a cavity in the main body of the core. When casting, this cavity is filled with a molten metal and the main bearing portion is formed in the casting.

IPC 1-7

B22C 9/00; B22C 9/04; B22C 9/10; B22C 9/24

IPC 8 full level

B22C 9/04 (2006.01); **B22C 9/10** (2006.01); **B22C 9/24** (2006.01)

CPC (source: EP)

B22C 9/046 (2013.01); **B22C 9/10** (2013.01); **B22C 9/103** (2013.01)

Citation (search report)

- [Y] DE 3018782 A1 19801218 - DEERE & CO
- [Y] DE 2746233 A1 19780420 - DEERE & CO
- [A] AT 262524 B 19680610 - GRUENZWEIG & HARTMANN [DE]

Cited by

US5253615A; EP0227308A3; US7093341B2; FR2819206A1; EP0924008A1; EP0497682A1; FR2672003A1; EP0280675A3; WO2004035245A1

Designated contracting state (EPC)

DE FR GB IT

DOCDB simple family (publication)

EP 0092690 A1 19831102; AU 1362983 A 19831117; JP S58184040 A 19831027

DOCDB simple family (application)

EP 83103190 A 19830330; AU 1362983 A 19830418; JP 6638582 A 19820422